

Title (en)  
OBTAINING ENERGY FROM CRYOGENIC FLUIDS

Publication  
**EP 0073088 A3 19840404 (EN)**

Application  
**EP 82300188 A 19820114**

Priority  
GB 8125476 A 19810820

Abstract (en)  
[origin: EP0073088A2] A plant for converting a cryogenic fluid into gas, comprises a container (1) for the cryogenic fluid, means such as a pipe (2) and a pump (3) for supplying the fluid from the container (1) to a vaporising plant (5) for converting the cryogenic fluid into a gas stream at super-atmospheric pressure, means (6, 12) for supplying the gas stream to the inlet of a gas expander (16) which includes a rotor (18) drivable by the gas stream, which rotor (18) comprises an output drive shaft (22), an alternating current generator (28) arranged to be driven by the shaft (22) and a voltage and frequency converter (32) having its input side connected to the electrical output of the generator (28) and its output side connected to an electrical power network (15). The converter (32) is of the kind which, over a predetermined range of the speed of rotation of the generator (28), delivers at its output side electric power at a voltage and frequency which at all times conform to the voltage and frequency of the network (15).

IPC 1-7  
**F01K 25/10**; **F17C 9/04**; **H02J 3/34**; **H02P 9/42**

IPC 8 full level  
**F01K 25/10** (2006.01); **F02C 1/04** (2006.01); **F17C 9/04** (2006.01); **H02P 9/42** (2006.01)

CPC (source: EP)  
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**EP 82300188 A 19820114**; GB 8200997 A 19820114; JP 404382 A 19820116; NO 820105 A 19820114